

OpampCornerTester

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=====PROCESS CHANGE=====

npnbf=150 npnvaf=200 pnpbf=150 pnpvaf=200 Rcssq=1000

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=====CONDITION CHANGE=====

Temp\_C= -45 Vcc=5 Vcm=1.5 Vout=1.5005 Iout=5.00499E-05 Is=0.00028979  
vos = -0.000462471 Iin =4.30376E-08 Ioff=1.00231E-09 Cmrr\_dB=116.067 Psrr\_dB=98.4266  
Avol\_dB=107.161 Ioutn = 0.00243266 Ioutp = -0.00294994  
GBW\_MHz = 6.12654 Pmarg\_deg = 23.4236

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=====CONDITION CHANGE=====

Temp\_C= -45 Vcc=10 Vcm=1.5 Vout=1.50036 Iout=5.00364E-05 Is=0.000304426  
vos = -0.000405388 Iin =4.50844E-08 Ioff=9.20386E-10 Cmrr\_dB=116.834 Psrr\_dB=99.2743  
Avol\_dB=107.161 Ioutn = 0.00243266 Ioutp = -0.00294994  
GBW\_MHz = 6.12654 Pmarg\_deg = 23.4236

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=====CONDITION CHANGE=====

Temp\_C= 27 Vcc=5 Vcm=1.5 Vout=1.49981 Iout=4.99805E-05 Is=0.00036123  
vos = -5.86116E-05 Iin =3.11517E-08 Ioff=6.989E-11 Cmrr\_dB=121.107 Psrr\_dB=105.608  
Avol\_dB=116.497 Ioutn = 0.00304997 Ioutp = -0.00295002  
GBW\_MHz = 5.81899 Pmarg\_deg = 22.1154

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=====CONDITION CHANGE=====

Temp\_C= 27 Vcc=10 Vcm=1.5 Vout=1.49974 Iout=4.9974E-05 Is=0.000379897  
vos = -3.35433E-05 Iin =3.26127E-08 Ioff=4.1872E-11 Cmrr\_dB=121.769 Psrr\_dB=106.386  
Avol\_dB=116.497 Ioutn = 0.00304997 Ioutp = -0.00295002  
GBW\_MHz = 5.81899 Pmarg\_deg = 22.1154

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=====CONDITION CHANGE=====

Temp\_C= 127 Vcc=5 Vcm=1.5 Vout=1.49927 Iout=4.99275E-05 Is=0.000436461  
vos = 0.000255447 Iin =2.12736E-08 Ioff=1.56226E-10 Cmrr\_dB=87.8709 Psrr\_dB=85.1946  
**spec failure #####**  
Avol\_dB=87.9893 Ioutn = 0.00304992 Ioutp = -0.00295007  
GBW\_MHz = 5.39699 Pmarg\_deg = 20.8221

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=====CONDITION CHANGE=====

Temp\_C= 127 Vcc=10 Vcm=1.5 Vout=1.49913 Iout=4.99126E-05 Is=0.000459375  
vos = 0.000324528 Iin =2.22616E-08 Ioff=2.07648E-10 Cmrr\_dB=104.686 Psrr\_dB=95.3739  
Avol\_dB=87.9893 Ioutn = 0.00304992 Ioutp = -0.00295007  
GBW\_MHz = 5.39699 Pmarg\_deg = 20.8221

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=====PROCESS CHANGE=====

npnbf=150 npnvaf=200 pnpbf=150 pnpvaf=200 Rcssq=1200

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=====CONDITION CHANGE=====

Temp\_C= -45 Vcc=5 Vcm=1.5 Vout=1.50056 Iout=5.00559E-05 Is=0.000245686  
vos = -0.000457434 Iin =3.58542E-08 Ioff=8.25919E-10 Cmrr\_dB=118.685 Psrr\_dB=98.4783  
Avol\_dB=105.732 Ioutn = 0.00222604 Ioutp = -0.00294993  
GBW\_MHz = 5.11669 Pmarg\_deg = 19.9897

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=====CONDITION CHANGE=====

Temp\_C= -45 Vcc=10 Vcm=1.5 Vout=1.50043 Iout=5.00429E-05 Is=0.00025786  
vos = -0.000400689 Iin =3.75587E-08 Ioff=7.57863E-10 Cmrr\_dB=119.392 Psrr\_dB=99.3257  
Avol\_dB=105.732 Ioutn = 0.00222604 Ioutp = -0.00294993  
GBW\_MHz = 5.11669 Pmarg\_deg = 19.9897

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=====CONDITION CHANGE=====

Temp\_C= 27 Vcc=5 Vcm=1.5 Vout=1.49985 Iout=4.9985E-05 Is=0.000305283  
vos = -5.49181E-05 Iin =2.59495E-08 Ioff=5.45496E-11 Cmrr\_dB=122.522 Psrr\_dB=105.686  
Avol\_dB=115.208 Ioutn = 0.00304998 Ioutp = -0.00295001  
GBW\_MHz = 4.86505 Pmarg\_deg = 19.1319

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=====CONDITION CHANGE=====

Temp\_C= 27 Vcc=10 Vcm=1.5 Vout=1.49979 Iout=4.99788E-05 Is=0.000320823  
vos = -3.00707E-05 Iin =2.71658E-08 Ioff=3.12674E-11 Cmrr\_dB=123.128 Psrr\_dB=106.463  
Avol\_dB=115.208 Ioutn = 0.00304998 Ioutp = -0.00295001  
GBW\_MHz = 4.86505 Pmarg\_deg = 19.1319

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=====CONDITION CHANGE=====

Temp\_C= 127 Vcc=5 Vcm=1.5 Vout=1.49922 Iout=4.99218E-05 Is=0.000368091  
vos = 0.000301398 Iin =1.77195E-08 Ioff=1.53538E-10 Cmrr\_dB=106.981 Psrr\_dB=96.2473  
Avol\_dB=103.931 Ioutn = 0.0030499 Ioutp = -0.00295007  
GBW\_MHz = 4.55698 Pmarg\_deg = 18.644

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=====CONDITION CHANGE=====

Temp\_C= 127 Vcc=10 Vcm=1.5 Vout=1.49902 Iout=4.99016E-05 Is=0.000387164  
vos = 0.000398355 Iin =1.85419E-08 Ioff=2.12338E-10 Cmrr\_dB=102.463 Psrr\_dB=92.3282  
Avol\_dB=103.931 Ioutn = 0.0030499 Ioutp = -0.00295007  
GBW\_MHz = 4.55698 Pmarg\_deg = 18.644

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=====PROCESS CHANGE=====

npnbf=150 npnvaf=200 pnpbf=120 pnpvaf=200 Rcssq=1200

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=====CONDITION CHANGE=====

Temp\_C= -45 Vcc=5 Vcm=1.5 Vout=1.50053 Iout=5.00528E-05 Is=0.000241034  
vos = -0.000480162 Iin =4.36698E-08 Ioff=1.05593E-09 Cmrr\_dB=121.041 Psrr\_dB=98.2449  
Avol\_dB=104.605 Ioutn = 0.00220182 Ioutp = -0.00294993  
GBW\_MHz = 4.98624 Pmarg\_deg = 19.8868

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=====CONDITION CHANGE=====

Temp\_C= -45 Vcc=10 Vcm=1.5 Vout=1.50039 Iout=5.0039E-05 Is=0.000252963  
vos = -0.000421881 Iin =4.57528E-08 Ioff=9.72029E-10 Cmrr\_dB=121.723 Psrr\_dB=99.095  
Avol\_dB=104.605 Ioutn = 0.00220182 Ioutp = -0.00294993  
GBW\_MHz = 4.98624 Pmarg\_deg = 19.8868

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=====CONDITION CHANGE=====

Temp\_C= 27 Vcc=5 Vcm=1.5 Vout=1.4998 Iout=4.99802E-05 Is=0.000301677  
vos = -6.10638E-05 Iin =3.19433E-08 Ioff=7.46642E-11 Cmrr\_dB=123.575 Psrr\_dB=105.563  
Avol\_dB=114.261 Ioutn = 0.00304997 Ioutp = -0.00295002

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GBW_MHz = 4.79159  Pmarg_deg = 19.0803
~~~~~CONDITION CHANGE~~~~~
Temp_C= 27  Vcc=10  Vcm=1.5  Vout=1.49974  Iout=4.99737E-05  Is=0.00031703
vos = -3.58659E-05  Iin =3.34435E-08  Ioff=4.59118E-11  Cmrr_dB=124.172  Psrr_dB=106.342
Avol_dB=114.261  Ioutn = 0.00304997  Ioutp = -0.00295002
GBW_MHz = 4.79159  Pmarg_deg = 19.0803
~~~~~CONDITION CHANGE~~~~~
Temp_C= 127  Vcc=5  Vcm=1.5  Vout=1.4992  Iout=4.99204E-05  Is=0.000365518
vos = 0.000287012  Iin =2.19615E-08  Ioff=1.8117E-10  Cmrr_dB=108.456  Psrr_dB=97.0602
Avol_dB=103.978  Ioutn = 0.0030499  Ioutp = -0.00295007
GBW_MHz = 4.50625  Pmarg_deg = 18.6805
~~~~~CONDITION CHANGE~~~~~
Temp_C= 127  Vcc=10  Vcm=1.5  Vout=1.49902  Iout=4.99018E-05  Is=0.000384461
vos = 0.000374931  Iin =2.29817E-08  Ioff=2.47652E-10  Cmrr_dB=103.943  Psrr_dB=93.2179
Avol_dB=103.978  Ioutn = 0.0030499  Ioutp = -0.00295007
GBW_MHz = 4.50625  Pmarg_deg = 18.6805
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